

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
4 September 2003 (04.09.2003)

PCT

(10) International Publication Number
WO 03/072759 A2(51) International Patent Classification⁷: C12NROMERO, Michael, F. [US/US]; 2309 Lamberton Road,
Cleveland Heights, OH 44118-3518 (US).

(21) International Application Number: PCT/US03/06469

(22) International Filing Date: 28 February 2003 (28.02.2003)

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(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/360,275 28 February 2002 (28.02.2002) US(71) Applicants (for all designated States except US): VAN-
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Euclid Avenue, Cleveland, OH 44106-4970 (US).(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,
SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW.(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI,
SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

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[Continued on next page]

(54) Title: CLONING AND CHARACTERIZATION OF SLC26A6, SLC26A1, AND SLC26A2 ANION EXCHANGERS

SEQ ID NO.

70	SLC26A1	(71)	CDVMSGLVIGIILVPOAIAYSLLAG--LQPIYSLYTSFFANLIYFLMGTS
71	SLC26A2	(110)	CDVMSGLVIGIILVPOAIAYSLLAG--QEPIYGLYTSFFASTIYFLFGTS
72	SLC26A3	(75)	SDIVSGISTGLVAVLQGLAFALLVN--LPPAYGLYAAFFFWITTYFFLGTS
73	SLC26A4	(86)	SDIISGVSTGLVGTLOGMAYALLAA--VPVQGLYSFAFFPILTYFVFGTS
74	SLC26A5	(82)	CDIVSGISTGLVQIPOGLAFAMLLA--VPPVQGLYSFFPILTYFVFGTS
75	SLC26A6	(94)	GDLLSGLSVAIMQIPQGLAYALLAG--LPPMFGLYSSFPVFIYFLFGTS
76	SLC26A7	(49)	PDTVSGIMLAYQVQVAGGLSFAMLS--VHPVQGLYGSLEPAIYAIFFMG
77	SLC26A8	(92)	GDLLAGLSVGLAQVQVQGLILSLTROLIPPLINVTYAFCSVIVYVIFGSC
78	SLC26A9	(73)	PDLLGGLSGGCIQVPGMAFALLAN--LPAVNGLYSSFPFLLTYFFLGGI
79	SLC26A11	(33)	LDFTAGLSVGLTVIPOALAYAEVAG--LPPQYGLYSAEMGCENYFFLGTS
70	SLC26A1	(119)	RHVNVGIFSLCLMVGQVVDRELQLAGFDPSQDSLGPKNNDSTINNSATT
71	SLC26A2	(158)	RHISVGIFGILCLMIGEVDRELHKACPDTDATSSSIYAVFSSGCVVNH
72	SLC26A3	(123)	RHISVGPFVLSLMVGVVTRVVSDFNASS-----ELSSSTENDSFI
73	SLC26A4	(134)	RHISVGPFVLSLMVGSVVLSPAPDDHFLVPSGNGS-ALNSTTLDTGTRD
74	SLC26A5	(130)	RHISIGPFAVLSLMIGGAVRLVPPDIVIPG-G-----VNATNGTEARD
75	SLC26A6	(142)	RHISVGTFVMSVMVGSVTESLTADKAFVQ-----LNATAD
76	SLC26A7	(97)	RHVATGTFALTSLSANAVRLVQSSRNLTQ--S-----NSSVGLSEFP
77	SLC26A8	(142)	HQMSIGPFVLSALMINVLKDRPFNNHGLILG---TFVKDDFSVPTFYLS
78	SLC26A9	(121)	HQVPGTFVLSILVGNICLQAPESKQIFNN---VTNETYVDTAAME
79	SLC26A11	(81)	RDVTLGPTAISMILLSVFYTFREPAYAVLLA-----

(57) Abstract: Isolated nucleic acids encoding SLC26A6, SLC26A1, and SLC26A2 anion transporter polypeptides, recombinantly expressed SLC26A6, SLC26A1, and SLC26A2 anion transporter polypeptides, heterologous expression systems for recombinant expression of SLC26A6, SLC26A1, and SLC26A2 anion transporter polypeptides, assay methods employing the same, and methods for modulation of anion transport activity.

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